

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/JP2004/007786

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 G11B27/034 G11B27/34 G11B27/32

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 G11B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
E	EP 1 441 356 A (SONY CORP) 28 July 2004 (2004-07-28) paragraph '0037! - paragraph '0181!; figures	1-18
X	WO 02/077865 A (ARIDOME KENICHIRO ; MURAKAMI MASAHIRO (JP); SONY CORP (JP); MORIMOTO N) 3 October 2002 (2002-10-03) abstract	1-18
P,X	-& EP 1 372 087 A (SONY CORP) 17 December 2003 (2003-12-17) paragraph '0002! - paragraph '0018! paragraph '0024! - paragraph '0151!; figures	1-18
X	WO 03/030029 A (ARIDOME KENICHIRO ; HIRABAYASHI MITSUHIRO (JP); SONY CORP (JP); ISHIZA) 10 April 2003 (2003-04-10) abstract	1-8, 10-16,18
A		9,17 -/-

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

\* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the International filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the International filing date but later than the priority date claimed

- "T" later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "&" document member of the same patent family

Date of the actual completion of the International search

1 September 2004

Date of mailing of the International search report

11/10/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax (+31-70) 340-3016

Authorized officer

D'Attilia, M

**INTERNATIONAL SEARCH REPORT**International Application No  
PCT/JP2004/007786**C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT**

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P,X	-& EP 1 418 508 A (SONY CORP) 12 May 2004 (2004-05-12) paragraph '0018! - paragraph '0069! -----	1-8, 10-16,18 9,17
P,A	US 2003/146915 A1 (LAWTHER MICHAEL JAN ET AL) 7 August 2003 (2003-08-07) paragraphs '0028! - '0036! paragraph '0132! - paragraph '0141! paragraph '0223! - paragraph '0225! -----	1-18

**INTERNATIONAL SEARCH REPORT**

Information on patent family members

International Application No

PCT/JP2004/007786

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
EP 1441356	A	28-07-2004	EP	1441356 A2		28-07-2004
WO 02077865	A	03-10-2002	JP	2002278996 A		27-09-2002
			CN	1462398 T		17-12-2003
			EP	1372087 A1		17-12-2003
			WO	02077865 A1		03-10-2002
			US	2003182297 A1		25-09-2003
EP 1372087	A	17-12-2003	JP	2002278996 A		27-09-2002
			EP	1372087 A1		17-12-2003
			CN	1462398 T		17-12-2003
			WO	02077865 A1		03-10-2002
			US	2003182297 A1		25-09-2003
WO 03030029	A	10-04-2003	JP	2003050811 A		21-02-2003
			CN	1473302 T		04-02-2004
			EP	1418508 A1		12-05-2004
			WO	03030029 A1		10-04-2003
			US	2004047597 A1		11-03-2004
EP 1418508	A	12-05-2004	JP	2003050811 A		21-02-2003
			EP	1418508 A1		12-05-2004
			US	2004047597 A1		11-03-2004
			CN	1473302 T		04-02-2004
			WO	03030029 A1		10-04-2003
US 2003146915	A1	07-08-2003		NONE		